

AMENDMENT**IN THE CLAIMS:**

Please amend the claims as follows:

1. (Currently amended) A plasma processing system comprising:
 - a processing container whose inner pressure can be reduced,
 - a first electrode arranged in the processing container, the first electrode being supplied a first high-frequency electric power and a second high-frequency electric power,
 - a process gas supplying part that supplies a process gas into the processing container,
 - a tubular supporting part that supports the first electrode, the tubular supporting part forming an ~~enclosed~~ space together with a bottom surface of the first electrode such that said ~~enclosed~~ space is disposed within the tubular supporting part below the first electrode, and
 - a high-frequency electric power supplying part arranged in the ~~enclosed~~ space, wherein the high-frequency electric power supplying part further comprises:
 - a first high-frequency electric power source unit that outputs the first high-frequency electric power having a first frequency,
 - a first matching unit for impedance matching of the first high-frequency electric power,
 - a power supply rod which connects the first electrode to the first matching unit,
 - a second matching unit for impedance matching of the second high-frequency electric power,
 - a coaxial tube which connects the first electrode to the second matching unit, and
 - a transmission line that transmits the first high-frequency electric power from the first high-frequency electric power source unit to the first matching unit, the transmission line being another coaxial tube.
2. (Withdrawn) A plasma processing unit according to claim 1, wherein the length of the transmission line is shorter than $\lambda/2$, λ being a wavelength of the third harmonic wave of the high-frequency electric power, and with respect to the third harmonic wave of the high-frequency electric power, an output terminal of the high-frequency electric power source and an input

terminal of the matching unit are electrically short-circuited ends, respectively.

3. (Previously presented) A plasma processing system according to claim 1, wherein
the transmission line has a length which is shorter than $3\lambda/4$, λ being a wavelength of a third harmonic wave of the first high-frequency electric power, and

with respect to the third harmonic wave of the first high-frequency electric power, an output terminal of the high-frequency electric power source is an electrically short-circuited end and an input terminal of the first matching unit is an electrically open end.

4. (Previously presented) A plasma processing system according to claim 1, wherein

the first high-frequency electric power source comprises:

a first high-frequency electric power generating part that generates the first high-frequency electric power when direct-current power is supplied thereto, and

a filter that selectively allows the first high-frequency electric power from the first high-frequency electric power generating part to pass therethrough.

5. (Previously presented) A plasma processing system according to claim 4, wherein

the first high-frequency electric power source further comprises a circulator that allows a forward wave from the first high-frequency electric power generating part to pass therethrough and that absorbs a reflected wave from the first matching unit, between the first high-frequency electric power generating part and the filter.

6. (Canceled)

7. (Previously presented) A plasma processing system according to claim 1, wherein the first frequency is not less than 70 MHz.

8. (Previously presented) A plasma processing system according to claim 1, wherein

a second electrode is arranged in the processing container in parallel with and opposed to the first electrode.

9. (Previously presented) A plasma processing system according to claim 8, wherein

the substrate to be processed is adapted to be placed on the first electrode, and a vent hole is provided in the second electrode to jet out the process gas toward the first electrode.

10. (Canceled)

11. (Currently amended) A high-frequency electric power supplying apparatus, comprising:

a first high-frequency electric power source unit that outputs first high-frequency electric power having a first frequency,

a first matching unit for impedance matching of the first high-frequency electric power,

a second matching unit for impedance matching of second high-frequency electric power,

and

a transmission line that transmits the first high-frequency electric power from the first high-frequency electric power source unit to the first matching unit,

wherein:

the high-frequency electric power supplying apparatus is arranged in an ~~enclosed~~ space and further arranged for a plasma processing system, the plasma processing system comprising:

a processing container whose inner pressure can be reduced;

a first electrode arranged in the processing container, the first electrode being supplied the first high-frequency electric power and the second high-frequency electric power,

a process gas supplying apparatus that supplies a process gas into the processing container; and

a tubular supporting part that supports the first electrode, the tubular supporting part forming the ~~enclosed~~ space together with a bottom surface of the first electrode such that said ~~enclosed~~ space is disposed within the tubular supporting part below the first electrode;

a power supply rod connects the first matching unit to the first electrode;

a coaxial tube connects the second matching unit to the first electrode; and

the transmission line is another coaxial tube.

12. (Withdrawn) A high-frequency electric power supplying unit according to claim 11, wherein the length of the transmission line is shorter than $\lambda/2$, λ being a wavelength of the third harmonic

wave of the high-frequency electric power, and with respect to the third harmonic wave of the high-frequency electric power, an output terminal of the high-frequency electric power source and an input terminal of the matching unit are electrically short-circuited ends, respectively.

13. (Canceled)

14. (Previously presented) A high-frequency electric power supplying unit according to claim 11, wherein the first high-frequency electric power source comprises:

a first high-frequency electric power generating part that generates the first high-frequency electric power when direct-current power is supplied thereto, and

a filter that selectively allows the first high-frequency electric power from the first high-frequency electric power generating part to pass therethrough.

15. (Previously presented) A high-frequency electric power supplying apparatus according to claim 14, wherein

the first high-frequency electric power source further comprises a circulator that allows a forward wave from the first high-frequency electric power generating part to pass therethrough and that absorbs a reflected wave from the first matching unit, between the first high-frequency electric power generating part and the filter.

16. (Previously presented) A high-frequency electric power supplying apparatus according to claim 15,

wherein the first high-frequency electric power generating part is connected via a cable to a direct-current power source that converts alternating-current power of commercial frequency into the direct-current power.

17. (Canceled)

18. (Previously presented) A high-frequency electric power supplying apparatus according to claim 11, wherein

the first frequency is not less than 70 MHz.

19. (Previously presented) A plasma processing system according to claim 4, wherein
the filter has an output terminal connected to the transmission line as an electrically short-circuited end with respect to a harmonic wave of the first high-frequency electric power.
20. (Canceled)
21. (Previously presented) A plasma processing system according to claim 1, wherein
the high-frequency electric power supplying part has three vertically-stacked boxes; and
the first high-frequency electric power source, the first matching unit and the second matching unit are contained in the three boxes, respectively.
22. (Previously presented) A high-frequency electric power supplying apparatus according to claim 14, wherein
the filter has an output terminal connected to the transmission line as an electrically short-circuited end with respect to a harmonic wave of the first high-frequency electric power.
23. (Canceled)
24. (Previously presented) A high-frequency electric power supplying apparatus according to claim 11, wherein
the high-frequency electric power supplying part has three vertically stacked boxes; and
the first high-frequency electric power source, the first matching unit and the second matching unit are contained in the three boxes, respectively.
25. (Previously presented) A high-frequency electric power supplying apparatus according to claim 11, wherein
the transmission line has a length which is shorter than $3\lambda/4$, λ being a wavelength of a harmonic wave of the first high-frequency electric power, and
with respect to the third harmonic wave of the first high-frequency electric power, an output terminal of the first high-frequency electric power source is an electrically short-circuited end and an input terminal of the first matching unit is an electrically open end.